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Amendments to the Claims:

1. (Currently Amended) A protective composite sleeve material for a microwave reaction vessel, said sleeve material comprising:

a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on the outer one surface of said wound layer; and

a chemically-inert pressure-resistant structural polymeric inner layer liner on the opposite surface of said wound layer from said first ~~structural~~ polymer layer.

[2. (Cancelled)]

[3. (Cancelled)]

4. (Currently Amended) A composite sleeve material according to Claim 1 and further comprising a chemically inert outer layer liner ~~on said first structural polymer~~.

5. (Original) A composite sleeve material according to Claim 4 wherein said first structural polymer comprises a polyimide resin.

6. (Currently Amended) A composite sleeve material according to Claim 1 comprising 5 ~~wherein said inner and outer liners are~~ layers formed of tetrafluoroethylene polymer.

7. (Currently Amended) A composite sleeve material according to Claim 4 and further comprising at least one additional textile layer and one additional structural polymer layer between said first structural polymer layer and said inert outer layer liner.

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8. (Original) A composite sleeve material according to Claim 7 wherein said additional textile layer is selected from the group consisting of wound filaments, wound yarns, woven fabric, braided fabric, nonwoven fabric, and knitted fabric.

{9-12 Cancelled}

13. (Original) A composite sleeve according to Claim 10 further comprising a plurality of pairs of adjacent concentric layers of structural polymer and textiles between said inner and outer polymeric layers.

14. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs are selected from the group consisting of woven fabrics, braided fabrics, nonwoven fabrics, and knitted fabrics.

15. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs comprise a winding selected from the group consisting of filaments and yarns.

{16-35 Cancelled}

36. (Previously Added) A protective composite sleeve material according to Claim 1 wherein said yarns are selected from the group consisting of filament and spun yarns.

{37. Cancelled}

38. (Currently Amended) A protective composite sleeve and vessel assembly for microwave assisted chemistry, said assembly comprising:

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a sleeve formed of a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on one surface of said wound layer, and a chemically-inert ~~pressure-resistant structural~~ polymeric inner layer ~~liner~~ on the opposite surface of said wound layer from said first ~~structural~~ polymer layer; and
a microwave-transparent pressure resistant reaction cylinder surrounded by said sleeve.
